

AMENDMENTS TO THE CLAIMS

1-3. (Canceled)

4. (Currently Amended) The multi-directional ball switch as claimed in claim 10,

wherein said switching section comprises:

~~a supporting plate having a hinge hole;~~

~~a hinge shaft that is inserted into said hinge hole;~~

a stopper including a supporting plate that is equipped provided with a supporting ball located at the center of said supporting plate; ~~and for supporting the ball knob,~~

a press sensor ~~that is~~ installed between the top of the free-end of said supporting plate and the down surface of said panel ~~-, and~~

a hinge mechanism disposed between the supporting ball

and the press sensor, whereby upon pressing the ball knob

towards the supporting plate, the supporting plate rotates around

the hinge mechanisms to turn the press sensor to an "on" position.

5. (Previously Presented) A multi-directional ball switch as claimed in claim 10,

wherein said rotation shafts are installed to support both sides of said ball knob so that said ball knob can rotate in only one direction of up/down or left/right at a time.

6. (Previously Presented) The multi-directional ball switch as claimed in claim 10 ,

wherein said 4 click encoders are constructed to generate a click sound or a click vibration while said rotation shafts are rotating.

7-9. (Canceled)

10. (Currently Amended) A multi-directional ball switch which ~~comprises~~ consists essentially of:

a panel having four (4) diagonally-located fixtures, each of which has an orthogonal shaft-like hole;

a ball knob placed on said panel;

a conversion means that transforms the rotation of said ball knob into an electrical signal, said conversion means including four (4) rotation shafts that are inserted into the orthogonal shaft holes of said four (4) diagonally-located fixtures, respectively; and

four (4) click encoders into which ends of said four (4) rotation shafts are inserted, respectively; wherein bottoms of said four (4) click encoders are fixed on said panel;

a CPU connected to said conversion means and to a sound generation section;

a switching section that restrains the rotation of said ball knob and generates an output value ~~from~~ for said CPU; and

a signal generation section connected to said CPU.

11. (Canceled)